



PACP Class Syllabus

Pipeline Assessment & Certification Program (PACP™) Version 7.0.4

Required Texts

Pipeline Assessment & Certification Manual- provided by NASSCO through a certified trainer. Updates to the manual can be found by logging in to www.nassco.org

Suggested Reference

Sewerage Rehabilitation Manual- WRc. Available for purchase at www.nassco.org.

Manual of Sewer Condition Classifications- WRc. Available for purchase at www.nassco.org

Course Goals

PACP - The goal of the NASSCO PACP course is to provide the student a thorough indoctrination of the PACP coding procedures, provide an opportunity for students to ask questions and clarify various aspects of the program, review coding procedures, and insure the contents of the PACP have been adequately conveyed to the student through the successful completion of the certification examination.

Course Activities

Presentation of Modules

Course Review

Multiple Choice/Open Book Test

Course Schedule

Day 1

1. Module 0 – PACP Overview (Preface and Introduction of the PACP Reference Manual), *estimated time 45 minutes*
 - A. Course Content
 - B. Introduction to NASSCO
 - C. NASSCO Website
 - D. Overview of PACP Manual

2. Module 1 – Introduction and Need for Condition Categorization (Section 1 of the PACP Reference Manual), *estimated time 1.75 hour*
 - A. PACP® Overview
 - B. Origin of Condition Codes
 - C. Reasons for TV Inspection

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- D. How We Use TV Inspection Data
 - E. Why Standardization is Important
 - F. General Approach to TV Using the PACP®
 - G. Supplemental Technologies
 - H. Background to Technical Issues
 - i. Deterioration Mechanisms
 - I. PACP Inspection Form
 - J. PACP Inspection Deliverables
 - K. Clay Pipe Video
3. Module 2 – PACP Header Section (Section 2 of the PACP Reference Manual), *estimated time 1.0 hour*
- A. PACP Inspection Form Header Section Instructions
 - B. General Guidelines When Completing CCTV Inspection Form Header Section
 - C. CCTV Inspection Header Information
4. Module 3 – PACP Details Section (Section 3 of the PACP Reference Manual), *estimated time 1.25 hours*
- A. PACP Inspection Form Details Section
 - B. Initial Coding
 - C. Final Coding
 - D. Column Entries
 - E. Sample PACP Inspection Form
5. Module 4 – Structural Defect Coding (Section 4 of the PACP Reference Manual), *estimated time 3.25 hours*
- A. Crack (C)
 - B. Fracture (F)
 - C. Broken (B)
 - D. Hole (H)
 - E. Deformed (D)
 - i. Rigid Pipe
 - ii. Flexible Pipe
 - iii. Brick
 - F. Collapsed (X)
 - G. Joint (J)
 - H. Surface Damage (S)
 - I. Lining Features (LF)
 - J. Weld Failure (WF)
 - K. Point Repair (RP)
 - L. Brickwork

Day 2

6. Module 5 – O&M Defect Coding (Section 5 of the PACP Reference Manual), *estimated time 2 hours*
 - A. Deposits (D)
 - B. Roots (R)
 - C. Infiltration (I)
 - D. Obstacles/Obstructions (OB)
 - E. Vermin (V)
 - F. Testing and Grouting (G)
 - i. Mainline Packer Video
 - ii. Packer Liner Extended Video
7. Module 6 – Construction Features Coding (Section 6 of the PACP Reference Manual) *estimated time 1 hour*
 - A. Tap (T)
 - B. Intruding Sealing Material (IS)
 - C. Line (Direction/Alignment of the Sewer) (L)
 - D. Access Points (A)
8. Module 7 - Miscellaneous Features Coding (Section 7 of the PACP Reference Manual), *estimated time 1 hour*
 - A. General features and defects that are not described by or included in other PACP categories
 - B. Used to record features' special observations
9. Module 10 – Appendices A-C, *estimated time 1.0 hour*
 - A. Appendix A – Code List
 - B. Appendix B – Color Coded Chart
 - C. Appendix C – PACP[®] Condition Grading System
 - D. Appendix D – PACP[®]-Based Risk Management (optional)
 - E. Appendix E – Pipe Shapes and Materials (optional)
10. Course Review, *estimated time 2 hours*
 - A. Practice Pictures – Module 11
 - B. Jeopardy
11. Multiple Choice Test, *estimated time 2 hours*

Grading

Each student will be expected to get at least 85% of the questions asked correct in order to become certified. If the target is not met, every effort will be made to help the student grasp the information and retake the test.

Course Time: 15 hours

Testing: 2 hours

Total PACP Time: 17 hours